

| SUMMARY OF QUANTITIES | | | |
|-----------------------|---|-------|----------|
| | | | X080-2A |
| CODE NO. | ITEM | UNIT | QUANTITY |
| 20100500 | TREE REMOVAL, ACRES | ACRE | 0.2 |
| 20200100 | EARTH EXCAVATION | CU YD | 920 |
| 20300100 | CHANNEL EXCAVATION | CU YD | 310 |
| 20400800 | FURNISHED EXCAVATION | CU YD | 630 |
| 25000200 > | SEEDING, CLASS 2 | ACRE | 0.9 |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 81 |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 81 |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 81 |
| 25100115 > | MULCH, METHOD 2 | ACRE | 0.9 |
| 28000250 > | TEMPORARY EROSION CONTROL SEEDING | POUND | 200 |
| 28000300 > | TEMPORARY DITCH CHECKS | EACH | 10 |
| 28100107 | STONE RIPRAP, CLASS A4 | SQ YD | 675 |
| 28102500 | STONE RIPRAP DITCH | SQ YD | 620 |
| 28200100 | FILTER FABRIC FOR USE WITH RIPRAP | SQ YD | 675 |
| 40200800 | AGGREGATE SURFACE COURSE, TYPE B | TON | 690 |
| 50100100 > | REMOVAL OF EXISTING STRUCTURES | EACH | 1 |
| 50300225 | CONCRETE STRUCTURES | CU YD | 93.0 |
| 50400305 | PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH) | SQ FT | 2,880 |
| 50800105 | REINFORCEMENT BARS | POUND | 7,140 |
| 50900205 | STEEL RAILING, TYPE S1 | FOOT | 240 |
| 51201400 | FURNISHING STEEL PILES HP10X42 | FOOT | 375 |
| 51202700 | DRIVING STEEL PILES | FOOT | 375 |
| 51203400 | TEST PILE STEEL HP10X42 | EACH | 1 |
| 51204310 | CONCRETE ENCASEMENT | CU YD | 7.2 |
| 51500100 | NAME PLATES | EACH | 1 |
| 542D0223 > | PIPE CULVERT CLASS D, TYPE 1 18" | FOOT | 64 |
| 542D0235 > | PIPE CULVERT CLASS D, TYPE 1 30" | FOOT | 40 |
| 63100075 | TRAFFIC BARRIER TERMINAL TYPE 5A | EACH | 2 |
| 63100167 | TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) | EACH | 2 |
| 78201000 | TERMINAL MARKER - DIRECT APPLIED | EACH | 2 |
| Z0065000 > | SETTING PILES IN ROCK | EACH | 8 |
| >X5020501 | UNDERWATER STRUCTURE EXCAVATION PROTECTION LOCATION 1 | EACH | 1 |
| >X5020502 | UNDERWATER STRUCTURE EXCAVATION PROTECTION LOCATION 2 | EACH | 1 |

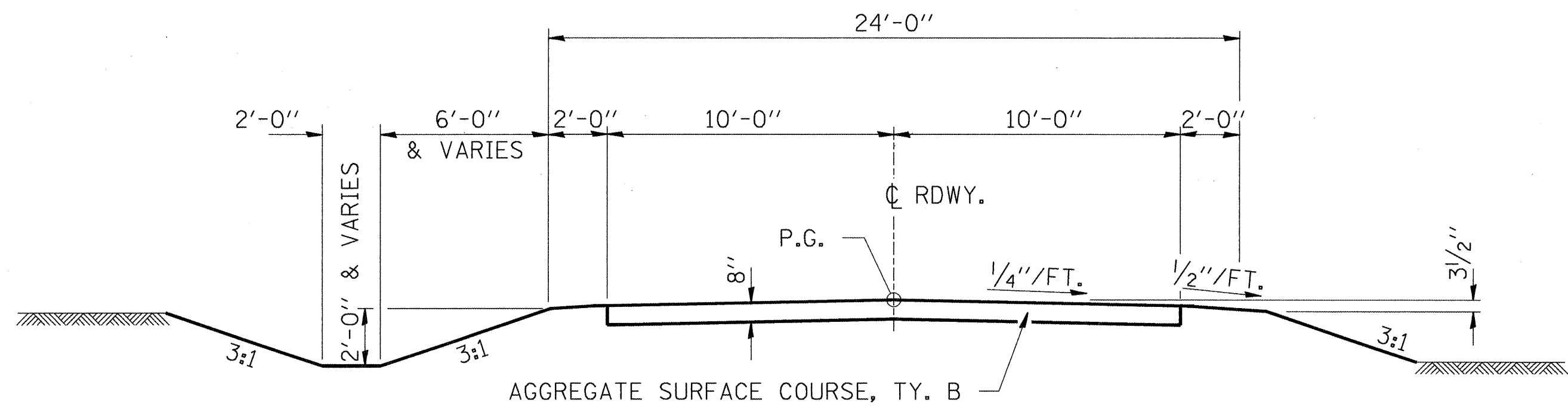
> SEE SPECIAL PROVISIONS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2002," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE LOCATIONS OF EXISTING ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS UNTIL THE OWNER, HIS AGENT, PROFESSIONAL LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX OF SHEETS SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES
AGGREGATE SURFACE CSE. 2.05 TON/CU YD
STONE RIPRAP, CL. A4 1.75 TON/CU YD 0.67 TON/SQ YD @ 16" DEPTH
STONE RIPRAP DITCH 1.75 TON/CU YD 0.50 TON/SQ YD @ 12" DEPTH
- THE AREA TO BE SEEDD SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITY = 0.9 ACRES.
- TREES WITHIN THE RIGHT-OF-WAY WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER.

| EARTHWORK SCHEDULE | | | | | | |
|-------------------------------|--------------------------|------------------|--------------|-------------------------------|-----------------------------|---------------------------|
| LOCATION | EARTH EXCAVATION (CU YD) | SHRINKAGE FACTOR | PERCENT USED | AVAILABLE* EXCAVATION (CU YD) | EMBANKMENT REQUIRED (CU YD) | EARTHWORK BALANCE (CU YD) |
| STA. 6+00 TO STA. 9+05.08 | 610 | 25% | 100% | 458 | 686 | -228 |
| STA. 9+05.08 TO STA. 10+26.92 | 0 | 25% | 100% | 0 | 0 | 0 |
| STA. 10+26.92 TO STA. 13+50 | 310 | 25% | 100% | 233 | 769 | -536 |
| CHANNEL EXCAVATION ENTRANCES | 310 | 25% | 70% | 163 | 25 | 163 |
| TOTAL | 921 | | | 856 | 1486 | 626 |
| USE: | 920 | | | | | 630 |

* AVAILABLE EXCAVATION = EXC. x (1-SHRINKAGE FACTOR) x % USED



TYPICAL CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

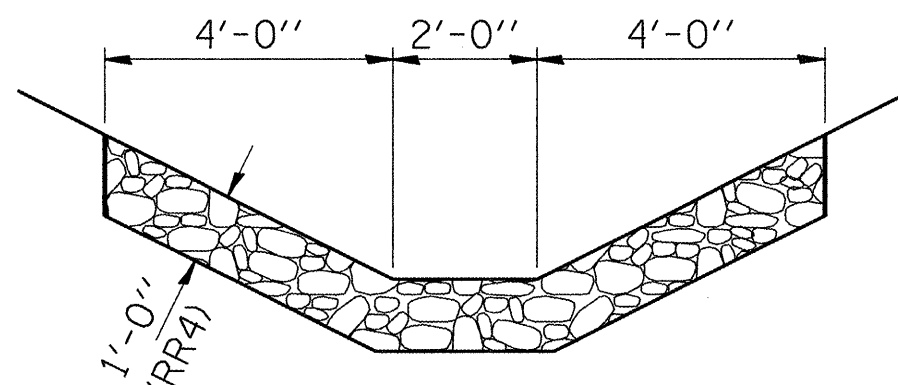
TYPICAL FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

ROAD CLASSIFICATION - LOCAL ROAD ADT 0-250
CURRENT ADT< 100
DESIGN SPEED: 30 M.P.H.

TYPICAL CROSS SECTION

STA. 6+50 TO STA. 13+00

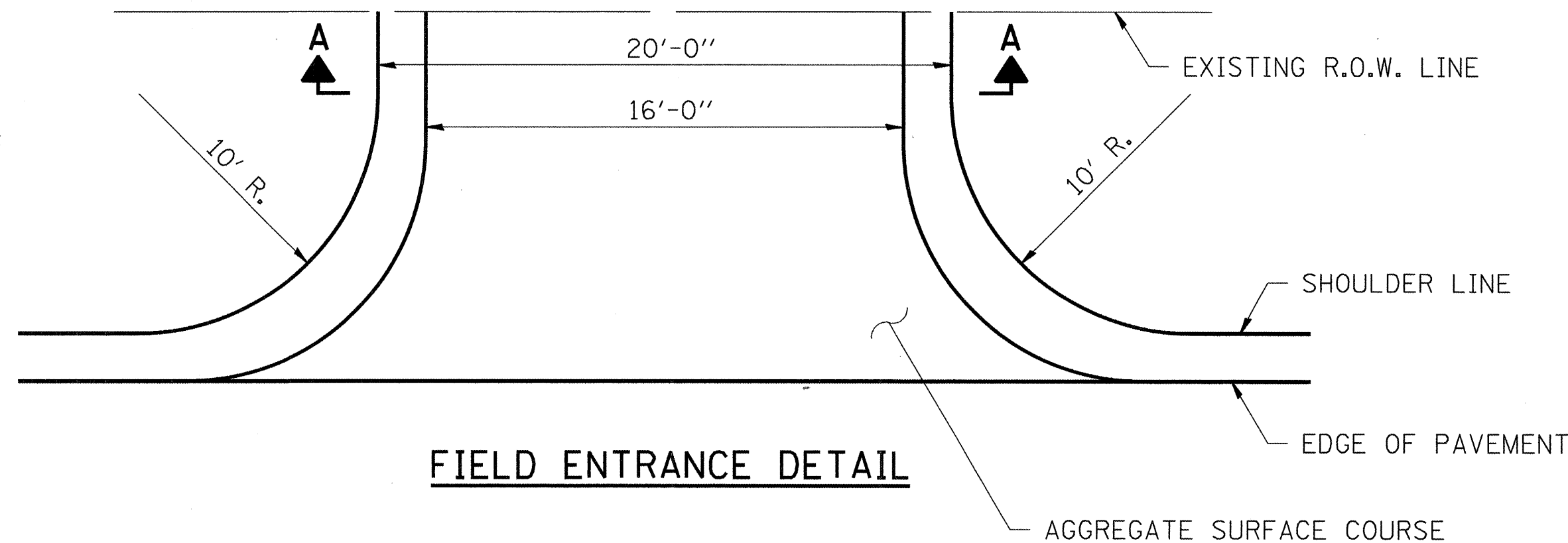
TRANSITION FROM PROPOSED ROADWAY TO THE
EXISTING ROADWAY IS TO BE CONSTRUCTED FROM
STA. 6+00 TO STA. 6+50 AND FROM STA. 13+00 TO
STA. 13+50. SEE SHEET 7 FOR TRANSITION AT BRIDGE.



STONE RIPRAP DITCH

RT. STA. 6+00 TO STA. 9+20
LT. STA. 6+00 TO STA. 9+00

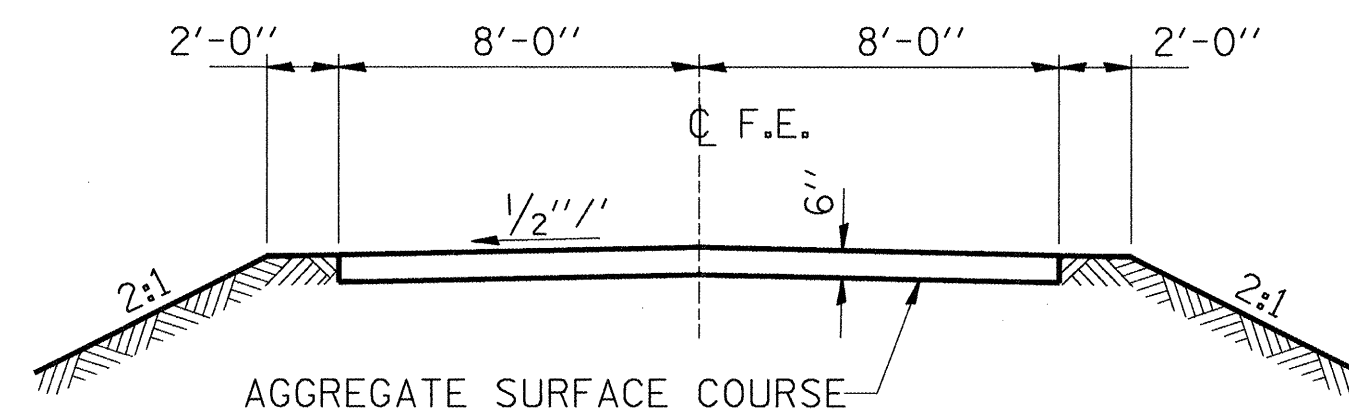
ESTIMATED QUANTITY = 620 SQ YD



FIELD ENTRANCE DETAIL

| TRAFFIC BARRIER TERM., TY 1 SPL (TANG) | |
|--|------|
| LOCATION | EACH |
| RT. STA. 8+62.89 TO STA. 9+12.89 | 1 |
| LT. STA. 10+79.11 TO STA. 11+29.11 | 1 |
| TOTAL | 2 |

| TRAFFIC BARRIER TERMINAL, TYPE 5A | |
|------------------------------------|------|
| LOCATION | EACH |
| RT. STA. 9+12.89 TO STA. 9+26.14 | 1 |
| LT. STA. 10+65.86 TO STA. 10+79.11 | 1 |
| TOTAL | 2 |



SECTION A-A

HLR
Rice, Berry and Associates
A Division of Hampton,
Lenzini and Renwick, Inc.
Civil & Structural Engineers
801 S. Durkin Drive
Springfield, Illinois 62704
217-546-3400
Account Number
12-87-0012-1
Date: 9-19-03
DESIGNED: C.J.B. CHECKED: S.W.M. DRAWN: D.T.M.

**SUMMARY OF QUANTITIES
AND TYPICAL SECTIONS**
SECTION 01-15124-00-BR / 00-01100-00-BR
PRAIRIE / BANNER ROAD DISTRICT
SHELBY / EFFINGHAM COUNTY
STATION 9+66